

RAW SEQUENCE LISTING

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Application Serial Number: 101009, 431
Source: FW16
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IFW16

RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/10/009,431

TIME: 09:37:40

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\01042005\J009431.raw

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3 <110> APPLICANT: Unsicker, Klaus.
4   Krieglstein, Kerstin.
6 <120> TITLE OF INVENTION: Neuroprotective properties of GDF-15, a novel member of
7   the TGF-BETA superfamily
9 <130> FILE REFERENCE: MBP-007XX
11 <140> CURRENT APPLICATION NUMBER: US 10/009,431
12 <141> CURRENT FILING DATE: 2002-2-13
14 <150> PRIOR APPLICATION NUMBER: PCT/EP00/04445
15 <151> PRIOR FILING DATE: 2000-05-16
17 <150> PRIOR APPLICATION NUMBER: EP 99 109 714.8
18 <151> PRIOR FILING DATE: 1999-05-17
21 <160> NUMBER OF SEQ ID NOS: 7
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 888
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 atgctcctgg tgttgctggt gctctcgtgg ctgccgcatg ggggcgcctt gtctctggcc 60
32 gaggcgagcc gcgcaagttt cccgggaccc tcagagttgc actccgaaga ctccagattc 120
33 cgagagttgc ggaaacgcta cgaggacctg ctaaccaggc tgcgggcca cagagctgg 180
34 gaagattcga acaccgacct cgtcccggcc cctgcagtcc ggatactcac gccagaagtg 240
35 cggctgggat ccggcgccca cctgcacctg cgtatctctc gggccgcctt tcccagggg 300
36 ctccccgagg cctcccgctt tcaccggggt ctgttcgggc tgtccccgac ggcgtcaagg 360
37 tcgtgggacg tgacacgacc gctgcggcgt cagctcagcc ttgcaagacc ccaggcgccc 420
38 gcgctgcacc tgcgactgtc gccgcgcggc tgcgagtcgg accaactgct ggcagaatct 480
39 tcgtccgcac ggccccagct ggagttgcac ttgcggccgc aagccgccag gggcgccgc 540
40 agagcgcgtg cgcgcaacgg ggacgactgt ccgctcgggc ccgggcgttg ctgccgtctg 600
41 cacacggtcc gcgcgtcgtt ggaagacctg ggctgggccc attgggtgct gtcgccacgg 660
42 gaggtgcaag tgaccatgtg catcggcgcg tgcccagacc agttccgggc ggcaaactg 720
43 cagcgcgaga tcaagacgag cctgcaccgc ctgaagccc acacggtgcc agcgcctgc 780
44 tgcgtgcccg ccagctacaa tcccatggtg ctcttacaaa agaccgacac cggggtgtcg 840
45 ctccagacct atgatgactt gttagccaaa gactgccact gcatatga 888
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 339
50 <212> TYPE: DNA
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 2
54 gcgcgcaacg gggacgactg tccgctcggg cccgggcgtt gctgccgtct gcacacggtc 60
55 cgcgcgtcgc tggaaacctt gggctgggccc gattgggtgc tgcgccacg ggaggtgcaa 120
56 gtgacctatg gcatcggcgc gtgcccagac cagttccggg cggcaaactg gcacgcgcag 180
57 atcaagacga gcctgcaccg cctgaagccc gacacggtgc cagcgccttg ctgctgccc 240
58 gccagctaca atcccatggt gctcttacia aagaccgaca ccggggtgtc gctccagacc 300

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59 tatgatgact tgtagccaa agactgccac tgcatatga 339
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 295
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 3
68 Met Leu Leu Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala
69 1 5 10 15
71 Leu Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
72 20 25 30
74 Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu
75 35 40 45
77 Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn
78 50 55 60
80 Thr Asp Leu Val Pro Ala Val Arg Ile Leu Thr Pro Glu Val
81 65 70 75 80
83 Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala
84 85 90 95
86 Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe
87 100 105 110
89 Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu
90 115 120 125
92 Arg Arg Gln Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu
93 130 135 140
95 Arg Leu Ser Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser
96 145 150 155 160
98 Ser Ser Ala Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala
99 165 170 175
101 Arg Gly Arg Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu
102 180 185 190
104 Gly Pro Gly Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu
105 195 200 205
107 Asp Leu Gly Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val
108 210 215 220
110 Thr Met Cys Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met
111 225 230 235 240
113 His Ala Gln Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val
114 245 250 255
116 Pro Ala Pro Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile
117 260 265 270
119 Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu
120 275 280 285
122 Ala Lys Asp Cys His Cys Ile
123 290 295
127 <210> SEQ ID NO: 4
128 <211> LENGTH: 112
129 <212> TYPE: PRT
130 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 4

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133 Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly Arg Cys Cys Arg
134   1           5           10           15
136 Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly Trp Ala Asp Trp
137           20           25           30
139 Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys Ile Gly Ala Cys
140           35           40           45
142 Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln Ile Lys Thr Ser
143           50           55           60
145 Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro Cys Cys Val Pro
146   65           70           75           80
148 Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr Asp Thr Gly Val
149           85           90           95
151 Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp Cys His Cys Ile
152           100          105          110
159 <210> SEQ ID NO: 5
160 <211> LENGTH: 13
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 5
165 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln
166   1           5           10
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 15
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
177     derived from the murine and rat C-terminal
178     sequence of GDF-15
180 <400> SEQUENCE: 6
181 His Arg Thr Asp Ser Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
182   1           5           10           15
186 <210> SEQ ID NO: 7
187 <211> LENGTH: 15
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
192 <221> NAME/KEY: PEPTIDE
193 <222> LOCATION: (1)..(15)
194 <223> OTHER INFORMATION: Peptide corresponds to amino acids 273 to 287 of
195     human pre-pro-mature GDF-15
197 <400> SEQUENCE: 7
198 Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
199   1           5           10           15

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/009,431

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Output Set: N:\CRF4\01042005\J009431.raw

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